

Abstract

**COMPOSITIONS AND METHODS FOR PRODUCTION OF DISULFIDE BOND
CONTAINING PROTEINS IN HOST CELLS**

5 The invention provides composition and methods for producing proteins of interest
which comprise at least one disulfide bond, include proteins which in their mature form do
not contain disulfide bonds, but whose precursor molecule contained at least one disulfide
bond. The methods employ a host cell modified to more efficiently produce properly folded
disulfide bond containing proteins. The host cells generally contain a mutation in one or
10 more reductase genes, and can be further genetically modified to increase their growth rate,
and are further optionally modified to increase the expression of a catalyst of disulfide bond
formation. Host cells, methods for using such to produce proteins of interest, proteins of
interest produced by these methods are within the scope of the invention.